

CONDENSED CLIMATOLOGICAL SUMMARY.

In the following table are given for the various sections of the climatological service of the Weather Bureau the monthly average temperature and total rainfall; the stations reporting the highest and lowest temperatures, with dates of occurrence; the stations reporting the greatest and least total precipitation; and other data, as indicated by the several headings.

The mean temperature for each section, the highest and

lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperatures and precipitation are based only on records from stations that have 10 or more years of observations. Of course the number of such records is smaller than the total number of stations.

Summary of temperature and precipitation, by sections, July, 1914.

Section.	Temperature (°F.).						Precipitation (In inches and hundredths).							
	Section average.	Departure from the normal.	Monthly extremes.				Section average.	Departure from the normal.	Greatest monthly.		Least monthly.			
			Station.	Highest.	Date.	Station.			Lowest.	Date.	Station.	Amount.	Station.	Amount.
Alabama.....	81.6	+1.5	Newbern.....	107	26	2 stations.....	56	8	4.23	-1.03	Mentone.....	9.06	Fort Deposit.....	0.86
Arizona.....	78.7	-1.3	Mohawk.....	117	27†	Fort Valley.....	39	23	3.10	+0.86	Willow, Wash.....	8.59	Yuma.....	T.
Arkansas.....	82.6	+2.8	5 stations.....	107	14†	2 stations.....	54	31	2.69	-1.05	Bentonville.....	7.51	Corning.....	0.32
California.....	72.4	-1.6	Greenland Ranch.....	122	8	Greenville.....	28	9	0.06	+0.02	Nellie.....	3.75	70 stations.....	0.00
Colorado.....	66.1	-0.2	2 stations.....	102	12†	Dillon.....	29	1†	3.50	+1.15	Victor.....	11.23	Palisades.....	T.
Florida.....	81.6	+0.5	Federal Point.....	102	25†	Jasper.....	58	31	5.97	-1.77	Homestead.....	13.51	Malabar.....	1.87
Georgia.....	80.8	+0.7	Waynesboro.....	108	26	Blue Ridge.....	50	31	4.74	-0.78	Marshallville.....	8.53	Savannah.....	1.85
Hawaii (June).....	71.2	Makaweli.....	92	14	Volcano House.....	51	18	8.23	Hakalau.....	43.35	2 stations.....	0.00
Idaho.....	69.7	+1.4	Culdesac.....	111	11	New Meadows.....	25	21	0.87	+0.24	Blackfoot.....	2.80	Murtagh.....	T.
Illinois.....	79.0	+3.1	Greenville.....	109	16	Morris.....	42	3	1.50	-2.06	Olney.....	3.63	Metropolis.....	0.05
Indiana.....	77.6	+2.2	Shoals.....	112	12	Salamonia.....	43	30	1.85	-1.83	Forest Reserve.....	5.82	Notre Dame.....	0.20
Iowa.....	76.6	+2.5	Centerville.....	109	12	2 stations.....	43	3†	2.27	-1.69	Oskaloosa.....	6.50	Davenport.....	0.44
Kansas.....	79.9	+2.4	Minneapolis.....	111	15	Blakeman.....	45	1	2.69	-1.06	Madison.....	7.14	Dodge City.....	0.36
Kentucky.....	78.8	+2.0	Greensburg.....	109	12	Williamstown.....	43	30	3.20	-1.15	Berea.....	7.90	Paducah.....	T.
Louisiana.....	83.0	+1.2	2 stations.....	106	1†	Antioch.....	57	31	7.07	+0.42	Cades.....	18.66	Logansport.....	0.60
Maryland & Delaware.....	74.4	-1.2	do.....	101	23†	Deer Park.....	35	30†	3.10	-1.01	Delaware City.....	7.38	Woodstock.....	1.28
Michigan.....	69.8	-1.2	Adrian.....	103	22	Seney.....	33	19	2.64	-0.15	Iron Mountain.....	9.42	Bloomington.....	0.27
Minnesota.....	72.4	+3.5	Moose Lake.....	101	26	2 stations.....	36	18	2.48	-1.30	New London.....	5.73	Moose Lake.....	0.62
Mississippi.....	82.2	+1.5	3 stations.....	105	1†	Duck Hill.....	55	31	3.76	-1.27	Pearlington.....	7.68	Hernando.....	0.62
Missouri.....	80.5	+3.7	Grant City.....	109	12	Ironton.....	45	30	2.67	-1.66	Warsaw.....	7.61	Cardwell.....	0.34
Montana.....	68.7	+3.2	Fallon.....	107	20	Pleasant Valley.....	23	22	0.80	-0.57	Fallon.....	3.48	Hamilton.....	0.00
Nebraska.....	76.6	+2.1	Ewing.....	111	26	Hillside.....	37	1	1.84	-1.63	Orleans.....	5.04	Arcadia.....	0.37
Nevada.....	72.4	-0.6	Leeland.....	118	17	Tecoma.....	32	23	0.52	+0.14	Sharp.....	1.70	2 stations.....	0.00
New England.....	66.4	-2.7	Cavendish, Vt.....	93	18	Bloomfield, Vt.....	35	26	3.59	-0.23	Bridgeport, Conn.....	7.10	Fairfield, Me.....	0.93
New Jersey.....	71.5	-2.3	Bridgeton.....	97	23	Charlottesville.....	40	20	6.05	+1.17	Haddonfield.....	8.57	Cape May.....	1.94
New Mexico.....	70.1	-1.9	2 stations.....	102	16†	Harvey's Upper Ranch.....	37	18	4.83	+2.38	Gallinas P. sta.....	12.02	Lanark.....	1.27
New York.....	68.2	-1.4	Otto.....	98	16†	Lake Placid.....	31	20	3.25	-0.85	Sharon Springs.....	9.55	Fredonia.....	0.56
North Carolina.....	76.7	-0.2	2 stations.....	106	25†	Banners Elk.....	41	31	4.71	-0.95	Rock House.....	9.56	Elizabethtown.....	0.70
North Dakota.....	72.1	+4.5	Napoleon.....	109	26	2 stations.....	36	9†	2.31	-0.36	Dickinson.....	5.50	Beach.....	0.41
Ohio.....	74.0	+0.5	Hamilton.....	106	12	do.....	41	30†	2.19	-1.80	Cambridge.....	8.36	2 stations.....	0.72
Oklahoma.....	84.6	+4.6	Chattanooga.....	113	31	Hurley.....	50	1	1.63	-1.73	Hurley.....	5.50	do.....	T.
Oregon.....	67.4	+1.7	Matilla.....	110	18	Whitaker.....	17	21	0.29	-0.23	Headworks (2).....	2.35	Deadwood.....	0.00
Pennsylvania.....	71.3	-0.9	Punxsutawney.....	101	24	West Bingham.....	38	31	4.19	-0.30	Coatesville.....	10.29	Ridgway.....	1.10
Porto Rico.....	78.3	-0.5	Jayuya.....	97	3†	Albonito.....	52	12	4.48	-1.84	Rio Grande.....	20.84	Santa Isabel.....	0.77
South Carolina.....	80.0	+0.1	2 stations.....	107	25	Conway.....	63	22	5.16	-0.40	Rimmi.....	9.00	Dillon.....	0.78
South Dakota.....	75.9	+4.1	Oelrichs.....	110	26	2 stations.....	39	17	2.13	-0.84	Fairfax.....	6.45	Hot Springs.....	0.43
Tennessee.....	79.4	+2.0	Wildersville.....	110	12	Erasmus.....	42	31	4.34	-0.45	Erasmus.....	8.95	Brownsville.....	0.29
Texas.....	84.4	+2.1	7 stations.....	110	19†	Mount Blanco.....	54	25	1.51	-1.57	Andrews.....	11.90	13 stations.....	0.00
Utah.....	70.1	-2.0	Lemay.....	110	27	Scotfield.....	31	4	1.81	+1.27	Parowan.....	5.19	Low.....	0.00
Virginia.....	74.3	-0.9	Charlottesville.....	102	25	Burkes Garden.....	38	30†	4.27	-0.38	Blacksburg.....	9.60	Winchester.....	0.81
Washington.....	67.5	+1.3	Eltopia.....	111	18	2 stations.....	30	20	0.35	-0.47	Pomeroy.....	1.80	9 stations.....	0.00
West Virginia.....	73.1	-0.1	Point Pleasant.....	106	12	Dayard.....	38	31	4.11	-0.71	Elkins.....	7.74	Beckley.....	0.98
Wisconsin.....	71.6	+2.4	Grantsburg (2).....	100	11†	Long Lake.....	38	29	3.29	-0.88	Florence.....	7.06	Nellisville.....	0.85
Wyoming.....	65.5	+1.6	Hyattsville.....	103	9	Norris, Y. N. P.....	26	23	1.14	-0.23	Knowles.....	4.38	3 stations.....	0.00

† Other dates also.

DESCRIPTION OF TABLES AND CHARTS.

Table I gives the data ordinarily needed for climatological studies for about 158 Weather Bureau stations making simultaneous observations at 8 a. m. and 8 p. m., seventy-fifth meridian time daily, and for about 41 others making only one observation. The altitudes of the instruments above ground are also given.

Table II gives a record of precipitation the intensity of which at some period of the storm's continuance equaled or exceeded the following rates:

Duration (minutes).....	5	10	15	20	25	30	35	40	45	50	60
Rates per hour (inches).....	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.87	0.84	0.80

In cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest precipitation of any single storm has been given, also the greatest hourly fall during that storm.

Table III gives, for about 30 stations of the Canadian Meteorological Service, the means of pressure and tem-

perature, total precipitation and depth of snowfall, and the respective departures from normal values, except in the case of snowfall.

Chart I.—Hydrographs for several of the principal rivers of the United States.

Chart II.—Tracks of centers of high areas; and

Chart III.—Tracks of centers of low areas. The roman numerals show the chronological order of the centers. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the observations at 8 a. m. and 8 p. m., seventy-fifth meridian time. Within each circle is also given (Chart II) the last three figures of the highest barometric reading and (Chart III) the lowest reading reported at or near the center at that time, and in both cases as reduced to sea level and standard gravity.

Chart IV.—Total precipitation. The scale of shades showing the depth is given on the chart. Where the monthly amounts are too small to justify shading, and